

Titles of Most Frequently Occurring Classifications of Patents Returned
From A Search of 10032184 on December 04, 2003

8 62/259.2 (1 OR, 7 XR)
Class 062 : REFRIGERATION
62/259.1 STRUCTURAL INSTALLATION
62/259.2 .With electrical component cooling

7 29/740 (3 OR, 4 XR)
Class 029 : METAL WORKING
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE
29/729 .Means to assemble electrical device
29/739 ..Means to fasten electrical component to
wiring board, base, or substrate
29/740 ...Chip component

5 257/E23.147 (0 OR, 5 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.139 ...Liquid at normal operating temperature of
device (EPO)
257/E23.141 .Arrangements for conducting electric current
within device in operation from one component to
another,
interconnections, e.g., wires, lead frames (EPO)
257/E23.142 ..Including external interconnections
consisting of multilayer structure of conductive
and
insulating layers inseparably formed on
semiconductor body
(EPO)
257/E23.146 ...With adaptable interconnections (EPO)
257/E23.147Comprising antifuses, i.e., connections
having their state changed from nonconductive to
conductive
(EPO)

5 365/185.33 (0 OR, 5 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/185.01 FLOATING GATE
365/185.18 .Particular biasing
365/185.29 ..Erase
365/185.33 ...Flash

5 710/260 (1 OR, 4 XR)
Class 710 : ELECTRICAL COMPUTERS AND DIGITAL DATA
PROCESSING SYSTEMS: INPUT/OUTPUT
710/260 INTERRUPT PROCESSING

5 712/228 (3 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/220 PROCESSING CONTROL
712/228 .Context preserving (e.g., context swapping,
checkpointing, register windowing

4 165/170 (2 OR, 2 XR)
Class 165 : HEAT EXCHANGE
165/168 CONDUIT WITHIN, OR CONFORMING TO, PANEL OR WALL
STRUCTURE
165/170 .Opposed plates or shells

4 235/492 (3 OR, 1 XR)
Class 235 : REGISTERS
235/487 RECORDS
235/492 .Conductive

4 361/735 (0 OR, 4 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
361/679 .For electronic systems and devices
361/728 ..Module
361/729 ...Plural
361/735Stacked

4 365/15 (3 OR, 1 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/1 MAGNETIC BUBBLES
365/13 .Plural interacting paths
365/14 ..Closed loop
365/15 ...Major-minor

4 365/185.11 (4 OR, 0 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/185.01 FLOATING GATE
365/185.05 .Particular connection
365/185.11 ..Bank or block architecture

4 365/226 (1 OR, 3 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/226 POWERING

4 438/131 (1 OR, 3 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/128 MAKING DEVICE ARRAY AND SELECTIVELY
INTERCONNECTING
438/131 .Using structure alterable to conductive state
(i.e., antifuse)

4 705/26 (2 OR, 2 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
PRACTICE OR MANAGEMENT ARRANGEMENT
705/26 .Electronic shopping (e.g., remote ordering)

4 705/37 (1 OR, 3 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS

PRACTICE OR MANAGEMENT ARRANGEMENT

705/35 .Finance (e.g., banking, investment or credit)

705/37 ..Trading, matching, or bidding

4 713/321 (0 OR, 4 XR)

Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT

713/300 COMPUTER POWER CONTROL

713/320 .Power conservation

713/321 ..Programmable calculator with power saving
feature

4 984/DIG 1 (0 OR, 4 XR)

Class 984 : MUSICAL INSTRUMENTS

984/DIG 1 PAPER COPIES IN NUMERICAL ORDER OF ALL U.S.
PATENTS IN SUBCLASSES 1-398

3 165/165 (1 OR, 2 XR)

Class 165 : HEAT EXCHANGE

165/164 FLOW PASSAGES FOR TWO CONFINED FLUIDS

165/165 .Interdigitated plural first and plural second
fluid passages

3 165/80.3 (2 OR, 1 XR)

Class 165 : HEAT EXCHANGE

165/80.1 WITH RETAINER FOR REMOVABLE ARTICLE

165/80.2 .Electrical component

165/80.3 ..Air cooled, including fins

3 165/80.4 (0 OR, 3 XR)

Class 165 : HEAT EXCHANGE

165/80.1 WITH RETAINER FOR REMOVABLE ARTICLE

165/80.2 .Electrical component

165/80.4 ..Liquid cooled

3 206/714 (2 OR, 1 XR)

Class 206 : SPECIAL RECEPTACLE OR PACKAGE

206/701 HOLDER FOR A REMOVABLE ELECTRICAL COMPONENT

206/713 .Bar or tapelike carrier for plural components

206/714 ..Component retaining pockets

3 257/390 (1 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/264 ...Enhancement mode or with high resistivity
channel (e.g., doping of 10 15 cm ⁻³ or less)

257/288 .Having insulated electrode (e.g., MOSFET, MOS
diode)

257/368 ..Insulated gate field effect transistor in
integrated circuit

257/390 ...Matrix or array of field effect transistors
(e.g., array of FETs only some of which are

completed, or

structure for mask programmed read-only memory (ROM))

3 257/778 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
257/778 .Flip chip

3 257/E23.144 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E23.139 ...Liquid at normal operating temperature of
device (EPO)

257/E23.141 .Arrangements for conducting electric current
within device in operation from one component to

another,

interconnections, e.g., wires, lead frames (EPO)

257/E23.142 ..Including external interconnections
consisting of multilayer structure of conductive and
insulating layers inseparably formed on

semiconductor body

(EPO)

257/E23.144 ...Capacitive arrangements or effects of, or
between wiring layers (EPO)

3 257/E25.011 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E25.001 ASSEMBLIES CONSISTING OF PLURALITY OF
INDIVIDUAL SEMICONDUCTOR OR OTHER SOLID-STATE

DEVICES (EPO)

257/E25.002 .All devices being of same type, e.g.,
assemblies of rectifier diodes (EPO)

257/E25.003 ..Devices not having separate containers (EPO)

257/E25.01 ...Device consisting of plurality of
semiconductor or other solid state devices or

components

formed in or on common substrate, e.g., integrated

circuit

device (EPO)

257/E25.011Devices being arranged next and on each
other, i.e., mixed assemblies (EPO)

3 257/E25.013 (0 OR, 3 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E25.001 ASSEMBLIES CONSISTING OF PLURALITY OF
INDIVIDUAL SEMICONDUCTOR OR OTHER SOLID-STATE

DEVICES (EPO)

257/E25.002 .All devices being of same type, e.g.,
assemblies of rectifier diodes (EPO)

257/E25.003 ..Devices not having separate containers (EPO)

257/E25.01 ...Device consisting of plurality of
semiconductor or other solid state devices or

components

formed in or on common substrate, e.g., integrated

circuit

device (EPO)

257/E25.013Stacked arrangements of devices (EPO)

3 257/E27.102 (0 OR, 3 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.006 .Including piezo-electric, electro-resistive,
or magneto-resistive component (EPO)
257/E27.009 .Including semiconductor component with at
least one potential barrier or surface barrier
adapted for rectifying, oscillating, amplifying, or
switching, or Including integrated passive circuit elements
(EPO)
257/E27.01 ..With semiconductor substrate only (EPO)
257/E27.07 ...Including a plurality of individual
components in a repetitive configuration (EPO)
257/E27.081Including field-effect component (EPO)
257/E27.102Read-only memory, ROM, structure (EPO)

3 326/41 (1 OR, 2 XR)
Class 326 : ELECTRONIC DIGITAL LOGIC CIRCUITRY
326/37 MULTIFUNCTIONAL OR PROGRAMMABLE (E.G.,
UNIVERSAL, ETC.)
326/39 .Array (e.g., PLA, PAL, PLD, etc.)
326/41 ..Significant integrated structure, layout, or
layout interconnections

3 361/111 (3 OR, 0 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
361/111 .Transient responsive

3 361/56 (0 OR, 3 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
361/54 .Load shunting by fault responsive means (e.g.,
crowbar circuit)
361/56 ..Voltage responsive

3 361/699 (2 OR, 1 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
361/679 .For electronic systems and devices
361/688 ..With cooling means
361/689 ...Fluid
361/699Liquid

3 365/12 (0 OR, 3 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/1 MAGNETIC BUBBLES
365/11 .Generators
365/12 ..By splitting

3 365/149 (2 OR, 1 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

365/129 SYSTEMS USING PARTICULAR ELEMENT
365/149 .Capacitors

3 365/189.01 (0 OR, 3 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/189.01 READ/WRITE CIRCUIT

3 365/189.05 (1 OR, 2 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/189.01 READ/WRITE CIRCUIT
365/189.05 .Having particular data buffer or latch

3 365/200 (0 OR, 3 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/189.01 READ/WRITE CIRCUIT
365/200 .Bad bit

3 365/63 (0 OR, 3 XR)
Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL
365/63 INTERCONNECTION ARRANGEMENTS

3 438/396 (3 OR, 0 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/381 MAKING PASSIVE DEVICE (E.G., RESISTOR,
CAPACITOR, ETC.)
438/396 .Stacked capacitor

3 438/600 (1 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS

438/584 COATING WITH ELECTRICALLY OR THERMALLY
CONDUCTIVE MATERIAL
438/597 .To form ohmic contact to semiconductive
material
438/598 ..Selectively interconnecting (e.g.,
customization, wafer scale integration, etc.)
438/600 ...Using structure alterable to conductive
state (i.e., antifuse)

3 705/27 (0 OR, 3 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/1 AUTOMATED ELECTRICAL FINANCIAL OR BUSINESS
PRACTICE OR MANAGEMENT ARRANGEMENT
705/26 .Electronic shopping (e.g., remote ordering)
705/27 ..Presentation of image or description of sales
item (e.g., electronic catalog browsing)

3 705/53 (0 OR, 3 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/50 BUSINESS PROCESSING USING CRYPTOGRAPHY
705/51 .Usage protection of distributed data files
705/52 ..Usage or charge determination
705/53 ...Including third party for collecting or
distributing payment (e.g., clearinghouse)

3 705/80 (2 OR, 1 XR)
Class 705 : DATA PROCESSING: FINANCIAL, BUSINESS
PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
705/80 ELECTRONIC NEGOTIATION

3 710/1 (1 OR, 2 XR)
Class 710 : ELECTRICAL COMPUTERS AND DIGITAL DATA
PROCESSING SYSTEMS: INPUT/OUTPUT
710/1 INPUT/OUTPUT DATA PROCESSING

3 711/103 (2 OR, 1 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/100 STORAGE ACCESSING AND CONTROL
711/101 .Specific memory composition
711/102 ..Solid-state read only memory (ROM)
711/103 ...Programmable read only memory (PROM, EEPROM,
etc.)

3 712/32 (2 OR, 1 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/32 .Microprocessor or multichip or multimodule
processor having sequential program control

3 713/193 (1 OR, 2 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT
713/189 DATA PROCESSING PROTECTION USING CRYPTOGRAPHY
713/193 .By stored data protection

3 713/324 (1 OR, 2 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT
713/300 COMPUTER POWER CONTROL
713/320 .Power conservation
713/324 ..By shutdown of only part of system

2 29/721 (1 OR, 1 XR)
Class 029 : METAL WORKING
29/700 MEANS TO ASSEMBLE OR DISASSEMBLE
29/720 .With signal, scale, illuminator, or optical
viewer
29/721 ..For work-holder for assembly or disassembly

2 29/840 (0 OR, 2 XR)
Class 029 : METAL WORKING
29/592 METHOD OF MECHANICAL MANUFACTURE
29/592.1 .Electrical device making
29/825 ..Conductor or circuit manufacturing
29/829 ...On flat or curved insulated base, e.g.,
printed circuit, etc.

29/832 Assembling to base an electrical component,
 e.g., capacitor, etc.
 29/840 By metal fusion

2 62/196.4 (1 OR, 1 XR)
 Class 062 : REFRIGERATION
 62/132 AUTOMATIC CONTROL
 62/190 .Refrigeration producer
 62/196.1 ..Bypass, e.g., compressor unloading
 62/196.4 ...Condensor bypass

2 84/477R (0 OR, 2 XR)
 Class 084 : MUSIC
 84/453 ACCESSORIES
 84/470R .Teaching devices
 84/477R ..Indicators

2 84/609 (1 OR, 1 XR)
 Class 084 : MUSIC
 84/1 INSTRUMENTS
 84/600 .Electrical musical tone generation
 84/601 ..Data storage
 84/602 ...Digital memory circuit (e.g., RAM, ROM,
 etc.)
 84/609 Note sequence

2 84/622 (0 OR, 2 XR)
 Class 084 : MUSIC
 84/1 INSTRUMENTS
 84/600 .Electrical musical tone generation
 84/601 ..Data storage
 84/602 ...Digital memory circuit (e.g., RAM, ROM,
 etc.)
 84/622 Tone synthesis or timbre control

2 165/104.33 (0 OR, 2 XR)
 Class 165 : HEAT EXCHANGE
 165/104.11 INTERMEDIATE FLUENT HEAT EXCHANGE MATERIAL
 RECEIVING AND DISCHARGING HEAT
 165/104.19 .Liquid fluent heat exchange material
 165/104.33 ..Cooling electrical device

2 165/164 (0 OR, 2 XR)
 Class 165 : HEAT EXCHANGE
 165/164 FLOW PASSAGES FOR TWO CONFINED FLUIDS

2 221/285 (0 OR, 2 XR)
 Class 221 : ARTICLE DISPENSING
 221/282 WITH CASING OR SUPPORT
 221/285 .Base or support for angular disposition of
 supply container

2 221/306 (0 OR, 2 XR)
 Class 221 : ARTICLE DISPENSING
 221/303 WITH DISPENSING-TYPE OUTLET
 221/306 .With closure for outlet

2 235/380 (0 OR, 2 XR)
Class 235 : REGISTERS
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS
235/380 .Credit or identification card systems

2 235/382 (0 OR, 2 XR)
Class 235 : REGISTERS
235/375 SYSTEMS CONTROLLED BY DATA BEARING RECORDS
235/380 .Credit or identification card systems
235/382 ..Permitting access

2 257/211 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/202 GATE ARRAYS
257/208 .With particular signal path connections
257/211 ..Multi-level metallization

2 257/231 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/213 FIELD EFFECT DEVICE
257/215 .Charge transfer device
257/225 ..Non-electrical input responsive (e.g., light
responsive imager, input programmed by size of
storage sites for use as a read-only memory, etc.)
257/231 ...2-dimensional area architecture

2 257/391 (1 OR, 1 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/264 ...Enhancement mode or with high resistivity
channel (e.g., doping of 10^{15} cm⁻³ or less)
257/288 .Having insulated electrode (e.g., MOSFET, MOS
diode)
257/368 ..Insulated gate field effect transistor in
integrated circuit
257/390 ...Matrix or array of field effect transistors
(e.g., array of FETs only some of which are
completed, or structure for mask programmed read-only memory
(ROM))
257/391Selected groups of complete field effect
devices having different threshold voltages (e.g.,
different channel dopant concentrations)

2 257/532 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/499 INTEGRATED CIRCUIT STRUCTURE WITH ELECTRICALLY
ISOLATED COMPONENTS
257/528 .Passive components in ICs
257/532 ..Including capacitor component

2 257/681 (1 OR, 1 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/678 HOUSING OR PACKAGE
257/680 .With window means
257/681 ..For erasing EPROM

2 257/686 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/678 HOUSING OR PACKAGE
257/685 .Multiple housings
257/686 ..Stacked arrangement

2 257/712 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/688 .With large area flexible electrodes in press
contact with opposite sides of active semiconductor
chip
and surrounded by an insulating element, e.g., ring
257/712 .With provision for cooling the housing or its
contents

2 257/714 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/688 .With large area flexible electrodes in press
contact with opposite sides of active semiconductor
chip
and surrounded by an insulating element, e.g.,
ring
257/712 .With provision for cooling the housing or its
contents
257/714 ..Liquid coolant

2 257/722 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/688 .With large area flexible electrodes in press
contact with opposite sides of active
semiconductor chip
and surrounded by an insulating element, e.g.,
ring
257/712 .With provision for cooling the housing or its
contents
257/721 ..With gas coolant
257/722 ...With fins

2 257/723 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/688 .With large area flexible electrodes in press
contact with opposite sides of active semiconductor
chip
and surrounded by an insulating element, e.g., ring
257/723 .For plural devices

2 257/737 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/734 COMBINED WITH ELECTRICAL CONTACT OR LEAD
257/737 .Bump leads

2 257/E21.008 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E21.001 PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE
OR TREATMENT OF SEMICONDUCTOR OR SOLID-STATE
DEVICES OR OF
PARTS THEREOF (EPO)

257/E21.002 .Manufacture or treatment of semiconductor device (EPO)
 257/E21.003 ..Manufacture of two-terminal component for integrated circuit (EPO)
 257/E21.008 ...Of capacitor (EPO)

2 257/E21.503 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E21.001 PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE OR TREATMENT OF SEMICONDUCTOR OR SOLID-STATE

DEVICES OR OF

PARTS THEREOF (EPO)

257/E21.002 .Manufacture or treatment of semiconductor device (EPO)

257/E21.04 ..Device having at least one potential-jump barrier or surface barrier, e.g., PN junction,

depletion

layer, carrier concentration layer (EPO)

257/E21.499 ...Assembling semiconductor devices, e.g., packaging , including mounting, encapsulating, or

treatment

of packaged semiconductor (EPO)

257/E21.502Encapsulation, e.g., encapsulation layer, coating (EPO)

257/E21.503Encapsulation of active face of flip-chip device, e.g., under filling or under encapsulation of flip-chip, encapsulation perform on chip or mounting substrate (EPO)

2 257/E21.511 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES

257/E21.001 PROCESSES OR APPARATUS ADAPTED FOR MANUFACTURE OR TREATMENT OF SEMICONDUCTOR OR SOLID-STATE

DEVICES OR OF

PARTS THEREOF (EPO)

257/E21.002 .Manufacture or treatment of semiconductor device (EPO)

257/E21.04 ..Device having at least one potential-jump barrier or surface barrier, e.g., PN junction,

depletion

layer, carrier concentration layer (EPO)

257/E21.499 ...Assembling semiconductor devices, e.g., packaging , including mounting, encapsulating, or

treatment

of packaged semiconductor (EPO)

257/E21.506Attaching or detaching leads or other conductive members, to be used for carrying current

to or

from the device in operation (EPO)

257/E21.509Involving soldering or alloying process, e.g., soldering wires (EPO)

257/E21.511Mounting on insulating member provided with metallic leads, e.g., flip-chip mounting,

conductive

die mounting (EPO)

2 257/E21.672 (0 OR, 2 XR)

Class 257 : ACTIVE SOLID-STATE DEVICES
Could not find subclass title.

2 257/E23.004 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.001 PACKAGING, INTERCONNECTS, AND MARKINGS FOR
SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES (EPO)
257/E23.003 .Mountings, e.g., nondetachable insulating
substrates (EPO)
257/E23.004 ..Characterized by shape (EPO)

2 257/E23.079 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.001 PACKAGING, INTERCONNECTS, AND MARKINGS FOR
SEMICONDUCTOR OR OTHER SOLID-STATE DEVICES (EPO)
257/E23.01 .Arrangements for conducting electric current
to or from solid-state body in operation, e.g.,

leads,

terminal arrangements (EPO)
257/E23.079 ...For integrated circuit devices, e.g. power
bus, number of leads (EPO)

2 257/E23.084 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.03Carbon (EPO)
257/E23.08 .Arrangements for cooling, heating, ventilating
or temperature compensation; temperature-sensing
arrangements (EPO)
257/E23.083 ..Mountings or securing means for detachable
cooling or heating arrangements; fixed by friction,
plugs
or springs (EPO)
257/E23.084 ...With bolts or screws (EPO)

2 257/E23.114 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.113Ceramic materials or glass (EPO)
257/E23.114 .Protection against radiation, e.g., light,
electromagnetic waves (EPO)

2 257/E23.153 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.139 ...Liquid at normal operating temperature of
device (EPO)
257/E23.141 .Arrangements for conducting electric current
within device in operation from one component to
another,
interconnections, e.g., wires, lead frames (EPO)
257/E23.142 ..Including external interconnections
consisting of multilayer structure of conductive
and
insulating layers inseparably formed on
semiconductor body
(EPO)
257/E23.151 ...Geometry or layout of interconnection
structure (EPO)
257/E23.153Arrangements of power or ground buses (EPO)

2 257/E23.175 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E23.139 ...Liquid at normal operating temperature of
device (EPO)
257/E23.141 .Arrangements for conducting electric current
within device in operation from one component to
another,
interconnections, e.g., wires, lead frames (EPO)
257/E23.169 ..Interconnection structure between plurality
of semiconductor chips being formed on or in
insulating
substrates (EPO)
257/E23.175 ...Geometry or layout of interconnection
structure (EPO)

2 257/E27.154 (0 OR, 2 XR)
Class 257 : ACTIVE SOLID-STATE DEVICES
257/E27.102Read-only memory, ROM, structure (EPO)
257/E27.122 .Including active semiconductor component
sensitive to infrared radiation, light, or
electromagnetic
radiation of a shorter wavelength (EPO)
257/E27.127 ..Device controlled by radiation (EPO)
257/E27.13 ...Imager Including structural or functional
details of the device (EPO)
257/E27.15Charge coupled imager (EPO)
257/E27.154Area CCD imager (EPO)

2 273/143R (0 OR, 2 XR)
Class 273 : AMUSEMENT DEVICES: GAMES
273/138.1 CHANCE DEVICES
273/142R .Rotating disk
273/143R ..Edge indication

2 310/180 (1 OR, 1 XR)
Class 310 : ELECTRICAL GENERATOR OR MOTOR STRUCTURE
310/10 DYNAMOELECTRIC
310/40R .Rotary
310/179 ..Windings and core structure
310/180 ...Field or excitation windings or structure

2 326/39 (1 OR, 1 XR)
Class 326 : ELECTRONIC DIGITAL LOGIC CIRCUITRY
326/37 MULTIFUNCTIONAL OR PROGRAMMABLE (E.G.,
UNIVERSAL, ETC.)
326/39 .Array (e.g., PLA, PAL, PLD, etc.)

2 327/295 (1 OR, 1 XR)
Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
DEVICES, CIRCUITS, AND SYSTEMS
327/100 SIGNAL CONVERTING, SHAPING, OR GENERATING
327/291 .Clock or pulse waveform generating
327/295 ..Plural outputs

2 327/427 (0 OR, 2 XR)

Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/365 GATING (I.E., SWITCHING INPUT TO OUTPUT)
 327/419 .Utilizing three or more electrode solid-state
 device
 327/427 ..Field-effect transistor

2 327/535 (1 OR, 1 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/524 SPECIFIC IDENTIFIABLE DEVICE, CIRCUIT, OR
 SYSTEM
 327/530 .With specific source of supply or bias voltage
 327/534 ..Having particular substrate biasing
 327/535 ...Having stabilized bias or power supply level

2 327/537 (0 OR, 2 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/524 SPECIFIC IDENTIFIABLE DEVICE, CIRCUIT, OR
 SYSTEM
 327/530 .With specific source of supply or bias voltage
 327/534 ..Having particular substrate biasing
 327/535 ...Having stabilized bias or power supply level
 327/537With field-effect transistor

2 327/63 (1 OR, 1 XR)
 Class 327 : MISCELLANEOUS ACTIVE ELECTRICAL NONLINEAR
 DEVICES, CIRCUITS, AND SYSTEMS
 327/1 SPECIFIC SIGNAL DISCRIMINATING (E.G.,
 COMPARING, SELECTING, ETC.) WITHOUT SUBSEQUENT
 CONTROL
 327/50 .By amplitude
 327/63 ..Comparison between plural varying inputs

2 333/165 (2 OR, 0 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/24R COUPLING NETWORKS
 333/165 .Frequency or time domain filters and delay
 lines utilizing charge transfer devices

2 333/166 (0 OR, 2 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/24R COUPLING NETWORKS
 333/166 .Time domain filters

2 333/260 (1 OR, 1 XR)
 Class 333 : WAVE TRANSMISSION LINES AND NETWORKS
 333/245 LONG LINE ELEMENTS AND COMPONENTS
 333/260 .Connectors and interconnections

2 341/26 (0 OR, 2 XR)
 Class 341 : CODED DATA GENERATION OR CONVERSION

341/20 BODILY ACTUATED CODE GENERATOR
 341/22 .Including keyboard or keypad
 341/26 ..With particular key scanning feature

2 342/357.06 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)

2 342/357.1 (2 OR, 0 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.1 Combined with telecommunication

2 342/357.13 (0 OR, 2 XR)
 Class 342 : COMMUNICATIONS: DIRECTIVE RADIO WAVE SYSTEMS
 AND DEVICES
 342/350 DIRECTIVE
 342/352 .Including a satellite
 342/357.01 ..With position indicating
 342/357.06 ...Using Global Positioning Satellite (GPS or
 Glonass)
 342/357.13 With storage device (i.e., map or database)

2 348/320 (1 OR, 1 XR)
 Class 348 : TELEVISION
 348/207.99 CAMERA, SYSTEM AND DETAIL
 348/294 .Solid-state image sensor
 348/311 ..Charge-coupled architecture
 348/317 ...Field or frame transfer type
 348/320 Interline readout

2 358/496 (0 OR, 2 XR)
 Class 358 : FACSIMILE AND STATIC PRESENTATION PROCESSING
 358/400 FACSIMILE
 358/471 .Picture signal generator
 358/474 ..Scanning
 358/494 ...Linear scanning pattern
 358/496 Document moves during scanning

2 361/18 (2 OR, 0 XR)
 Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
 361/1 SAFETY AND PROTECTION OF SYSTEMS AND DEVICES
 361/18 .Voltage regulator protective circuits

2 361/687 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices
361/683 ..Computer related support
361/687 ...With cooling means

2 361/696 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices
361/688 ..With cooling means
361/689 ...Fluid
361/690Air
361/694With air circulating means
361/695Fan or blower
361/696With heat exchanger unit

2 361/697 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices
361/688 ..With cooling means
361/689 ...Fluid
361/690Air
361/694With air circulating means
361/695Fan or blower
361/697With heat sink or cooling fins

2 361/700 (0 OR, 2 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices
361/688 ..With cooling means
361/689 ...Fluid
361/699Liquid
361/700Change of physical state

2 361/705 (1 OR, 1 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices
361/688 ..With cooling means
361/704 ...Thermal conduction
361/705By specific coating

2 361/719 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices

361/688 ..With cooling means

361/704 ...Thermal conduction

361/717For active solid state devices

361/718For integrated circuit

361/719Circuit board mounted

2 361/767 (1 OR, 1 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices

361/748 ..Printed circuit board

361/760 ...Connection of components to board

361/767With mounting pad

2 361/783 (0 OR, 2 XR)

Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS

361/679 .For electronic systems and devices

361/748 ..Printed circuit board

361/760 ...Connection of components to board

361/783Having semiconductive device

2 365/1 (1 OR, 1 XR)

Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

365/1 MAGNETIC BUBBLES

2 365/151 (1 OR, 1 XR)

Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

365/129 SYSTEMS USING PARTICULAR ELEMENT

365/151 .Molecular or atomic

2 365/158 (1 OR, 1 XR)

Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

365/129 SYSTEMS USING PARTICULAR ELEMENT

365/158 .Magnetoresistive

2 365/170 (0 OR, 2 XR)

Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

365/129 SYSTEMS USING PARTICULAR ELEMENT

365/170 .Hall effect

2 365/174 (1 OR, 1 XR)

Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

365/129 SYSTEMS USING PARTICULAR ELEMENT

365/174 .Semiconductive

2 365/177 (1 OR, 1 XR)

Class 365 : STATIC INFORMATION STORAGE AND RETRIEVAL

	365/129	SYSTEMS USING PARTICULAR ELEMENT
	365/174	.Semiconductive
	365/177	..Bioplar and FET
2	365/189.04	(0 OR, 2 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/189.01	READ/WRITE CIRCUIT
	365/189.04	.Simultaneous operations (e.g., read/write)
2	365/190	(1 OR, 1 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/189.01	READ/WRITE CIRCUIT
	365/190	.For complementary information
2	365/2	(1 OR, 1 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/1	MAGNETIC BUBBLES
	365/2	.Disposition of elements
2	365/218	(2 OR, 0 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/189.01	READ/WRITE CIRCUIT
	365/218	.Erase
2	365/222	(0 OR, 2 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/189.01	READ/WRITE CIRCUIT
	365/222	.Data refresh
2	365/228	(1 OR, 1 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/226	POWERING
	365/228	.Data preservation
2	365/229	(1 OR, 1 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/226	POWERING
	365/228	.Data preservation
	365/229	..Standby power
2	365/230.03	(0 OR, 2 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/230.01	ADDRESSING
	365/230.03	.Plural blocks or banks
2	365/230.06	(0 OR, 2 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/230.01	ADDRESSING
	365/230.06	.Particular decoder or driver circuit
2	365/233	(0 OR, 2 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL
	365/230.01	ADDRESSING
	365/233	.Sync/clocking
2	365/233.5	(0 OR, 2 XR)
	Class 365 :	STATIC INFORMATION STORAGE AND RETRIEVAL

	365/230.01	ADDRESSING
	365/233	.Sync/clocking
	365/233.5	..Transition detection
2	365/72	(0 OR, 2 XR)
	Class 365	: STATIC INFORMATION STORAGE AND RETRIEVAL
	365/63	INTERCONNECTION ARRANGEMENTS
	365/72	.Transistors or diodes
2	365/95	(0 OR, 2 XR)
	Class 365	: STATIC INFORMATION STORAGE AND RETRIEVAL
	365/94	READ ONLY SYSTEMS (I.E.. SEMIPERMANENT)
	365/95	.With override (i.e., latent images)
2	368/10	(1 OR, 1 XR)
	Class 368	: HOROLOGY: TIME MEASURING SYSTEMS OR DEVICES
	368/10	COMBINED WITH DISPARATE DEVICE
2	370/422	(1 OR, 1 XR)
	Class 370	: MULTIPLEX COMMUNICATIONS
	370/351	PATHFINDING OR ROUTING
	370/389	.Switching a message which includes an address header
	370/422	..Centralized switching
2	375/222	(1 OR, 1 XR)
	Class 375	: PULSE OR DIGITAL COMMUNICATIONS
	375/219	TRANSCEIVERS
	375/222	.Modems (data sets)
2	377/81	(1 OR, 1 XR)
	Class 377	: ELECTRICAL PULSE COUNTERS, PULSE DIVIDERS, OR SHIFT REGISTERS: CIRCUITS AND SYSTEMS
	377/64	SHIFT REGISTER
	377/77	.Particular transfer means
	377/81	..Logic circuit
2	379/93.06	(0 OR, 2 XR)
	Class 379	: TELEPHONIC COMMUNICATIONS
	379/90.01	TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE ELECTRICAL SYSTEM OR SIGNALLING (E.G., COMPOSITE)
	379/93.01	.Having transmission of a digital message signal over a telephone line
	379/93.05	..Terminal interface circuitry
	379/93.06	...Digital
2	380/51	(0 OR, 2 XR)
	Class 380	: CRYPTOGRAPHY
	380/287	ELECTRIC SIGNAL MODIFICATION
	380/51	.Having production of printed copy (e.g., printer, typewriter)
2	380/55	(0 OR, 2 XR)
	Class 380	: CRYPTOGRAPHY
	380/55	HAVING PRODUCTION OF PRINTED COPY (E.G., CRYPTOGRAPHIC PRINTER OR TYPEWRITER)

2 429/1 (2 OR, 0 XR)
Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING
APPARATUS, PRODUCT, AND PROCESS
429/1 HAVING POLARITY SAFETY FEATURE

2 429/158 (0 OR, 2 XR)
Class 429 : CHEMISTRY: ELECTRICAL CURRENT PRODUCING
APPARATUS, PRODUCT, AND PROCESS
429/122 CURRENT PRODUCING CELL, ELEMENTS,
SUBCOMBINATIONS AND COMPOSITIONS FOR USE THEREWITH

AND

ADJUNCTS
429/149 .Plural cells
429/156 ..Complete cells
429/158 ...Having intercell connector

2 438/253 (0 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
438/142 MAKING FIELD EFFECT DEVICE HAVING PAIR OF
ACTIVE REGIONS SEPARATED BY GATE STRUCTURE BY
FORMATION OR
ALTERATION OF SEMICONDUCTIVE ACTIVE REGIONS
438/197 .Having insulated gate (e.g., IGFET, MISFET,
MOSFET, etc.)
438/238 ..Including passive device (e.g., resistor,
capacitor, etc.)
438/239 ...Capacitor
438/253Stacked capacitor

2 438/399 (0 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
438/381 MAKING PASSIVE DEVICE (E.G., RESISTOR,
CAPACITOR, ETC.)
438/396 .Stacked capacitor
438/399 ..Having contacts formed by selective growth or
deposition

2 438/467 (0 OR, 2 XR)
Class 438 : SEMICONDUCTOR DEVICE MANUFACTURING: PROCESS
438/466 DIRECT APPLICATION OF ELECTRICAL CURRENT
438/467 .To alter conductivity of fuse or antifuse
element

2 439/65 (0 OR, 2 XR)
Class 439 : ELECTRICAL CONNECTORS
439/55 PREFORMED PANEL CIRCUIT ARRANGEMENT, E.G., PCB,
ICM, DIP, CHIP, WAFER, ETC.
439/65 .With provision to conduct electricity from
panel circuit to another panel circuit

2 700/1 (1 OR, 1 XR)
Class 700 : DATA PROCESSING: GENERIC CONTROL SYSTEMS OR
SPECIFIC APPLICATIONS

	700/1	GENERIC CONTROL SYSTEM, APPARATUS OR PROCESS
2	701/1	(1 OR, 1 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/1	VEHICLE CONTROL, GUIDANCE, OPERATION, OR INDICATION
2	701/213	(0 OR, 2 XR)
	Class	701 : DATA PROCESSING: VEHICLES, NAVIGATION, AND RELATIVE LOCATION
	701/200	NAVIGATION
	701/207	.Employing position determining equipment
	701/213	..Using Global Positioning System (GPS)
2	705/52	(0 OR, 2 XR)
	Class	705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
	705/50	BUSINESS PROCESSING USING CRYPTOGRAPHY
	705/51	.Usage protection of distributed data files
	705/52	..Usage or charge determination
2	705/57	(1 OR, 1 XR)
	Class	705 : DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION
	705/50	BUSINESS PROCESSING USING CRYPTOGRAPHY
	705/51	.Usage protection of distributed data files
	705/57	..Copy protection or prevention
2	708/190	(1 OR, 1 XR)
	Class	708 : ELECTRICAL COMPUTERS: ARITHMETIC PROCESSING AND CALCULATING
	708/100	ELECTRICAL DIGITAL CALCULATING COMPUTER
	708/190	.Integrated circuit
2	709/224	(1 OR, 1 XR)
	Class	709 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTIPLE COMPUTER OR PROCESS COORDINATING
	709/200	MULTICOMPUTER DATA TRANSFERRING
	709/223	.Computer network managing
	709/224	..Computer network monitoring
2	710/3	(2 OR, 0 XR)
	Class	710 : ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT
	710/1	INPUT/OUTPUT DATA PROCESSING
	710/3	.Input/Output addressing
2	710/74	(1 OR, 1 XR)
	Class	710 : ELECTRICAL COMPUTERS AND DIGITAL DATA PROCESSING SYSTEMS: INPUT/OUTPUT
	710/1	INPUT/OUTPUT DATA PROCESSING
	710/62	.Peripheral adapting
	710/72	..Application-specific peripheral adapting
	710/74	...For data storage device
2	711/1	(1 OR, 1 XR)

Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/1 ADDRESSING COMBINED WITH SPECIFIC MEMORY
CONFIGURATION OR SYSTEM

2 711/202 (1 OR, 1 XR)
Class 711 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: MEMORY
711/200 ADDRESS FORMATION
711/202 .Address mapping (e.g., conversion,
translation)

2 712/200 (1 OR, 1 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/200 ARCHITECTURE BASED INSTRUCTION PROCESSING

2 712/223 (2 OR, 0 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/220 PROCESSING CONTROL
712/223 .Logic operation instruction processing

2 712/23 (1 OR, 1 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/23 .Superscalar

2 712/37 (2 OR, 0 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/32 .Microprocessor or multichip or multimodule
processor having sequential program control
712/37 ..Programmable (e.g., EPROM)

2 712/38 (0 OR, 2 XR)
Class 712 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: PROCESSING ARCHITECTURES AND INSTRUCTION
PROCESSING
712/1 PROCESSING ARCHITECTURE
712/32 .Microprocessor or multichip or multimodule
processor having sequential program control
712/38 ..Offchip interface

2 713/200 (1 OR, 1 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING
SYSTEMS: SUPPORT
713/200 SECURITY

2 713/201 (1 OR, 1 XR)
Class 713 : ELECTRICAL COMPUTERS AND DIGITAL PROCESSING

		SYSTEMS: SUPPORT
	713/200	SECURITY
	713/201	.Computer network
2	714/30	(2 OR, 0 XR)
	Class 714 :	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY
	714/100	DATA PROCESSING SYSTEM ERROR OR FAULT HANDLING
	714/1	.Reliability and availability
	714/25	..Fault locating (i.e., diagnosis or testing)
	714/27	...Particular access structure
	714/30Built-in hardware for diagnosing or testing within-system component (e.g., microprocessor test mode circuit, scan path)
2	714/5	(1 OR, 1 XR)
	Class 714 :	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY
	714/100	DATA PROCESSING SYSTEM ERROR OR FAULT HANDLING
	714/1	.Reliability and availability
	714/2	..Fault recovery
	714/3	...By masking or reconfiguration
	714/5Of memory or peripheral subsystem
2	714/719	(1 OR, 1 XR)
	Class 714 :	ERROR DETECTION/CORRECTION AND FAULT DETECTION/RECOVERY
	714/699	PULSE OR DATA ERROR HANDLING
	714/718	.Memory testing
	714/719	..Read-in with read-out and compare
2	716/4	(2 OR, 0 XR)
	Class 716 :	DATA PROCESSING: DESIGN AND ANALYSIS OF CIRCUIT OR SEMICONDUCTOR MASK
	716/1	CIRCUIT DESIGN
	716/4	.Testing or evaluating

5308967 66
6253193 64
6292830 64
6363488 64
6389402 64
6427140 64
6168083 55
4800302 53
6069563 53
4319342 51
4354442 51
RE32236 51
4832191 51
4841160 51
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4326270 37
4326710 37
4327355 37
4332489 37
4335434 37

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10032184 on December 04, 2003

Original Classifications

4 365/185.11
3 29/740
3 235/492
3 361/111
3 365/15
3 438/396
3 712/228
2 165/170
2 165/80.3
2 206/714
2 333/165
2 342/357.1
2 361/18
2 361/699
2 365/149
2 365/218
2 429/1
2 705/26
2 705/80
2 710/3
2 711/103
2 712/223
2 712/32
2 712/37
2 714/30
2 716/4

Cross-Reference Classifications

7 62/259.2
5 257/E23.147
5 365/185.33
4 29/740
4 361/735
4 710/260
4 713/321
4 984/DIG 1
3 165/80.4
3 257/778
3 257/E23.144
3 257/E25.011
3 257/E25.013
3 257/E27.102
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Combined Classifications

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